

**POWER OF ATTORNEY BY YALE UNIVERSITY**

**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

**YALE UNIVERSITY** hereby revokes all previous powers of attorney given in the application identified in the attached statement under 37 C.F.R. § 3.73(b) and listed in the attached Schedule of Applications.

**YALE UNIVERSITY** hereby appoints the Practitioners associated with

**Customer No. 23579**

as attorney(s) or agent(s) to represent **YALE UNIVERSITY** before the United States Patent and Trademark Office (USPTO) in connection with any and all matters pertaining to the application identified in the attached statement under 37 C.F.R. § 3.73(b) and listed in the attached Schedule of Applications, with full power of substitution, association and revocation, to prosecute said application and to transact all business in the USPTO connected therewith.

Please change the correspondence address for the application identified in the attached statement under 37 C.F.R. § 3.73(b) and listed in the attached Schedule of Applications to the address of record for

**Customer No. 23579**

Please direct all communications to the attention of:

Robert A. Hodges

Registration No. 41,074

Telephone: (404) 879-2346

Facsimile: (404) 879-2160

The undersigned (whose title is supplied below) is authorized to act on behalf of **YALE UNIVERSITY**.

I declare that all statements made herein of my own knowledge and belief are true and that all statements made on information and belief are believed to be true, and further, that the  
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statements are made with the knowledge that willful false statements are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

### YALE UNIVERSITY

By: Dorothy K. Robinson

Dorothy K. Robinson  
Vice President and General Counsel  
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New Haven, CT 06511

Date: 12/20/18

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**SCHEDULE OF APPLICATIONS**

Application No.	Filing Date	Title	Yale Reference No.	PPG Reference Number
60/932,112	5/29/2007	Riboswitches and Methods and Compositions for Use of and with Riboswitches	OCR 4711	24519.1.8401
12/602,338	5/29/2008	Riboswitches and Methods and Compositions for Use of and with Riboswitches	OCR 4711	24519.1.8402
60/932,164	5/29/2007	Methods and Compositions Related to Riboswitches that Control Alternative Splicing and RNA Processing	OCR 4712	24519.2.8401
12/602,390	5/29/2008	Methods and Compositions Related to Riboswitches that Control Alternative Splicing and RNA Processing	OCR 4712	24519.2.8402
60/919,410	3/22/2007	PreQ1 Riboswitches and Methods and Compositions for Use of and with PreQ1 Riboswitches	OCR 4646	24519.4.8401
12/532,538	3/5/2010	PreQ1 Riboswitches and Methods and Compositions for Use of and with PreQ1 Riboswitches	OCR 4646	24519.4.8402
60/919,433	3/22/2007	Methods and Compositions Related to Riboswitches that Control Alternative Splicing	OCR 4647	24519.5.8401
12/532,477	3/11/2010	Methods and Compositions Related to Riboswitches that Control Alternative Splicing	OCR 4647	24519.5.8402
60/412,468	9/20/2002	Riboswitches, Methods for their Use, and Compositions for Use	OCR 1397	24519.6.8401
10/669,162	9/22/2003	Riboswitches, Methods for their Use, and Compositions for Use	OCR 1397	24519.6.8402
12/492,866	6/26/2009	Riboswitches, Methods for Their Use, and Compositions for Use with Riboswitches	OCR 1397	24519.6.8403
12/709,072	2/19/2010	Riboswitches, Methods for Their Use, and Compositions for Use with Riboswitches	OCR 1397	24519.6.8404
60/181,360	2/8/2000	Nucleic Acid Catalysts with Endonuclease Activity	OCR 1089	24519.7.8401
60/193,646	2/8/2000	Nucleozymes with Endonuclease Activity	OCR 1089	24519.7.8402
09/780,929	2/8/2001	Nucleic Acid Catalysts with Endonuclease Activity	OCR 1089	24519.7.8403
09/781,902	2/8/2001	Nucleozymes with Endonuclease Activity	OCR 1089	24519.7.8404

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Application No.	Filing Date	Title	Yale Reference No.	PPG Reference Number
10/457,039	6/6/2003	Nucleozymes with Endonuclease Activitey	OCR 1089	24519.7.8405
60/617,309	10/7/2004	Glycine Riboswitches, Methods for their Use, and Compositions	OCR 3027	24519.8.8401
11/664,655	10/7/2005	Glycine Riboswitches, Methods for their Use, and Compositions	OCR 3027	24519.8.8402
		Riboswitches, Structure-Based Compound Design with Riboswitches, and Methods and Compositions for Use with Riboswitches		
60/625,864	11/8/2004	Riboswitches, Structure-Based Compound Design with Riboswitches, and Methods and Compositions for Use with Riboswitches	OCR 3028	24519.9.8401
		Riboswitches, Structure-Based Compound Design with Riboswitches, and Methods and Compositions for Use with Riboswitches		
11/667,153	11/8/2005	High Throughput Screening Methods for Identifying and Characterizing Low Molecular Weight Ligands that Bind to and Modulate the Activity of Riboswitches	OCR 3028	24519.9.8402
60/752,726	12/21/2005	Methods And Compositions Related To The Modulation Of Riboswitches	OCR 4023 US00	24519.10.8401
12/158,168	12/21/2006	Lysine Riboswitches, Structure-based Compound Design with Lysine Riboswitches, and Methods and Compositions for Use of and with Lysine Riboswitches	OCR 4023	24519.10.8402
60/843,728	9/11/2006	Lysine Riboswitches, Structure-based Compound Design with Lysine Riboswitches, and Methods and Compositions for Use of and with Lysine Riboswitches	OCR 4465	24519.11.8400
12/440,808	1/22/2010	GlmS Riboswitches, Structure-based Compound Design with GlmS Riboswitches, and Methods and Compositions for Use of and with GlmS Riboswitches	OCR 4465	24519.11.8401
60/842,870	9/6/2006 & 9/16/2006	GlmS Riboswitches, Structure-based Compound Design with GlmS Riboswitches, and Methods and Compositions for Use of and with GlmS Riboswitches	OCR 4464 & OCR 4474	24519.12.8400
60/844,844	9/6/2006 & 9/16/2006	GlmS Riboswitches, Structure-based Compound Design with GlmS Riboswitches, and Methods and Compositions for Use of and with GlmS Riboswitches	OCR 4464 & OCR 4474	24519.12.8400

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Application No.	Filing Date	Title	Yale Reference No.	PPG Reference Number
12/440,172	9/6/2007	GlmS Riboswitches, Structure-based Compound Design with GlmS Riboswitches, and Methods and Compositions for Use of and with GlmS Riboswitches	OCR 4464 & OCR 4474	24519.12.8401
60/852,951	10/19/2006	Computational Design of Ribozymes	OCR 4323	24519.13.8400
12/446,188	4/17/2009	Computational Design of Ribozymes	OCR 4323	24519.13.8402
61/216,354	5/15/2009	Crystal Structure of a GEMM Riboswitch from <i>Vibrio cholerae</i> Bound to Cyclic Diguanosine Monophosphate	OCR 5182	24519.14.8401
61/234,367	8/17/2009	Combined repetitive DNA biomarkers for measuring genomic instability, stress, aging, cancer risk, tumor burden, and response to therapy	OCR 5101	24519.15.8401
61/335,852	1/12/2010	Bacterial Noncoding RNA Candidates	OCR 5344	24519.16.8401